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5 of an electric vehicle having only an electric motor as a power source, a hybrid vehicle having at least two power sources that are an engine and an electric motor for example, and a fuel-cell vehicle having a fuel cell as a drive source, and has a motor generator or the like which is a high-voltage drive source for driving the vehicle. The high-voltage equipment held in the high-voltage equipment housing supplies a high-voltage power to electric equipment which is the drive source.

10 A high-voltage connector according to another aspect of the present invention makes an electrical connection between high-voltage equipment and another equipment different from the high-voltage equipment. The high-voltage connector includes a connection unit for mechanically establishing the electrical connection, and a changing unit for changing a state of the electrical connection between the high-voltage equipment and the another equipment to a disconnected state in response to release of the mechanical connection by means of the connection unit.

15 The high-voltage connector has a male plug and a female jack serving as the connection unit. With the male plug and the female jack, the high-voltage equipment and another equipment are electrically connected. The connection unit, the male plug and the female jack are mechanically connected to each other. In response to release of the mechanical connection by the connection unit, the changing unit changes the state of the electrical connection between the high-voltage equipment and that another equipment by means of the connection unit to the disconnected state. Thus, when an operator is going to detach the male plug and the female plug of the high-voltage connector that serve as the connection unit, the changing unit changes a state where a high voltage is supplied or a high voltage can be supplied to a state where a high voltage cannot be supplied. Accordingly, the high-voltage connector sufficiently ensuring safety of an operator working on high-voltage equipment can be provided.

30 Still more preferably, the changing unit of the high-voltage connector may include an interlock circuit attached to the connector and a circuit changing the state of the electrical connection to the disconnected